

Appl. No. **TO BE ASSIGNED**

Amdt. dated January 10, 2005

Preliminary Amendment

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

Claim 1 (Currently amended). A flame retardant thermoplastic resin composition comprising:

(A) 45 to 95 parts by weight of a polycarbonate resin;

(B) 1 to 50 parts by weight of a rubber modified vinyl-grafted copolymer prepared by graft-polymerizing (b<sub>1</sub>) 5 to 95 % by weight of a monomer mixture ~~consisting of~~ comprising 50 to 95 % by weight of at least one ~~selected from the group consisting~~ of styrene,  $\alpha$ -methylstyrene, halogen- or alkyl-substituted styrene, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, or a mixture thereof and 5 to 50 % by weight of acrylonitrile, methacrylonitrile, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, maleic acid anhydride, ~~and or~~ or C<sub>1-4</sub> alkyl- or phenyl N-substituted maleimide onto (b<sub>2</sub>) 5 to 95 % by weight of a rubber polymer selected from the group consisting of butadiene rubber, acryl rubber, ethylene-propylene rubber, styrene-butadiene rubber, acrylonitrile-butadiene rubber, isoprene rubber, copolymer of ethylene-propylene-diene (EPDM), polyorganosiloxane-polyalkyl (meta)acrylate rubber complex and a mixture thereof;

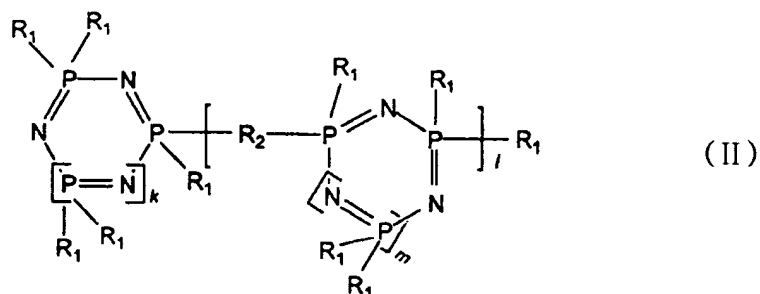
(C) 0 to 50 parts by weight of a vinyl copolymer prepared from (c<sub>1</sub>) 40 to 95 % by weight of at least one ~~selected from the group consisting~~ of styrene,  $\alpha$ -methyl styrene, halogen or alkyl substituted styrene, C<sub>1-8</sub> methacrylic acid alkyl ester, ~~and or~~ or C<sub>1-8</sub> acrylic acid alkyl ester and (c<sub>2</sub>) 5 to 60 % by weight of at least one ~~selected from the group consisting~~ of acrylonitrile, methacrylonitrile, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, maleic acid anhydride, ~~and or~~ or C<sub>1-4</sub> alkyl or phenyl N-substituted maleimide;

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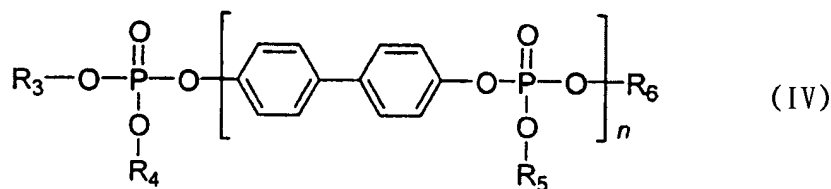
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(D) 1 ~ 30 parts by weight of a mixture of organic phosphorous compounds ~~consisting~~ of comprising (d<sub>1</sub>) 1 ~ 50 % by weight of a cyclic oligomeric phosphazene compound represented by the following Formula (II) and (d<sub>2</sub>) 99 ~ 50 % by weight of an oligomeric phosphoric acid ester compound represented by the following Formula (IV), per 100 parts by weight of the sum of (A), (B) and (C): and



wherein R<sub>1</sub> is alkyl, aryl, alkyl substituted aryl, aralkyl, alkoxy, aryloxy, amino, or hydroxyl or alkoxy substituted with alkyl, aryl, amino, or hydroxy group or aryloxy substituted with alkyl, aryl, amino, or hydroxy group ; k and m are an integer from 0 to 10; R<sub>2</sub> is C<sub>6-30</sub> dioxyaryl or alkyl substituted C<sub>6-30</sub> dioxyaryl derivative; and l is a degree of polymerization and the average value of l is from 0.3 to 3. ~~The alkoxy or the aryloxy can be substituted for alkyl, aryl, amino, or hydroxy group.~~



wherein R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are independently a C<sub>6-20</sub> aryl group or an alkyl-substituted C<sub>6-20</sub> aryl group, respectively, and n is an integer from 1 to 5 representing the number of

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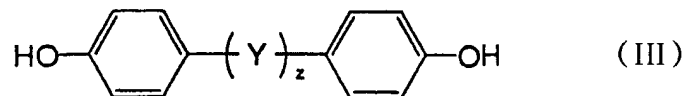
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repeating units ~~of 1 to 5~~ and the average value of  $n$  in the oligomeric phosphoric acid ester is 1 to 3.

(E) 0.05 to 5.0 parts by weight of a fluorinated polyolefin resin ~~with average particle size of 0.05 to 1,000  $\mu\text{m}$  and density of 1.2 to 2.3  $\text{g}/\text{cm}^3$~~ , per 100 parts by weight of (A)+(B)+(C).

Claim 2 (Currently amended). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said cyclic oligomeric phosphazene compound has a linear structure ~~or a structure with a branched chain at the main chain~~.

Claim 3 (Original). The flame retardant thermoplastic resin composition as defined in claim 1, wherein  $R_1$  is phenoxy and  $R_2$  is a derivative from catechol, resorcinol, hydroquinone, or the bisphenylenediol represented by the following Formula (III):



wherein Y is alkylene of  $\text{C}_{1-5}$ , alkylidene of  $\text{C}_{1-5}$ , cycloalkylidene of  $\text{C}_{5-6}$ , S or  $\text{SO}_2$ , and  $z$  is 0 or 1.

Claim 4 (Currently amended). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  are ~~a~~ respectively a phenyl, or naphthyl group, ~~or substituted phenyl in which alkyl is methyl, ethyl, isopropyl, and t-butyl.~~

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Claim 5 (New). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said cyclic oligomeric phosphazene compound has a structure with a branched chain at the main chain.

Claim 6 (New). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  are a respectively alkyl-substituted phenyl in which alkyl is methyl, ethyl, isopropyl, or t-butyl .

Claim 7 (New). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said fluorinated polyolefin resin has an average particle size of 0.05 to 1,000  $\mu\text{m}$  and a density of 1.2 to 2.3  $\text{g/cm}^3$ .